1999 TITLE/AUTHOR INDEX VOLUME 66

Title Index

Aquatic Biomonitoring. Margolis, Brian. April 1999: 22.

Aquatic Ecology. Atha, Jason T., and Ann M. L. Cavallo. February 1999: 26.

Attitudes Toward Evolution. Weld, Jeffrey, and Jill C. McNew. December 1999: 26.

Back to Basics. Nelson, George D. January 1999: 54.

Biology by Analogy. Paris, Nita A. November 1999: 24.

Camera Connection. Meadows, Lee, John Settlage, and Nancy Allen. March 1999: 32.

Capture the Wind. Snetsinger, Carol, Carol Brewer, and Fletcher Brown. February 1999: 38.

Case for Curriculum Review, A. Mabry, Betsy. January 1999: 50.

Celestial Simulations. MacIntyre, Bill. December 1999: 36.

Challenging Myths. Luft, Julie. April 1999: 40.

Chemistry of Cooking, The. Timmerman, Barbara. February 1999: 22.

Chocolate Curriculum, A. Tippins, Deborah J., Wilson J. Gonzalez-Espada, and Thomas A. Haugh. October 1999: 30.

Comparing Student Achievement. Hurd, Paul Dehart. January 1999: 46.

Contracting for Safety. Davidson, Anne B. September 1999: 36.

Creating a Culture for Success. Thomson, Barbara S., Mary Beth Carnate, Richard L. Frost, Eugenie W. Maxwell, and Tamara Garcia-Barbosa. March 1999: 23.

Design a Zoo. Adamson, Carol, and Gene Butler. February 1999: 18.

Dialysis Analysis. Hamilton, P. V. May 1999: 18.

Electron Slide, The. O'Connell, Edward M. December 1999: 48.

Environmental Adventure, An. Russell, Revabeth L., and Mardi Weber. October 1999: 26.

Explaining Ellipses. Reed, Sandra A. May 1999. 29.

Extended-Inquiry Activities. Edwards, Mary, Julie Luft, Teresa Potter, and Gill Roehrig. September 1999: 44.

Feedback from the Research Frontier. Marks, Steven K., John D. Vitek, and John R. Giardino. October 1999: 40.

Focusing on Learning. Carter, Timothy L. October 1999: 44.

From Classroom to Homepage. Crippen, Kent, and David W. Brooks. November 1999: 50.

Gender Bender. Swanson, Richard Pommier. October 1999: 23.

Genetics Demonstration. McGuire, Sarah Lea. April 1999: 44.

Geodesic Earth. Strong, Elizabeth A., and Robert E. Strong. February 1999: 43.

Handle with Care. McDuffie, Thomas E., John Longo, and Barbara Neff. September 1999: 32.

How Does Your Algae Grow? Louden, Cynthia K., and Joseph G. Carter. May 1999: 22.

How Does Your Microbe Glow? Edwards, Angela D. February 1999: 30.

Inclusive Reform. Atwater, Mary Monroe, and Melody L. Brown. March 1999: 44.

Inclusive Safety Solutions. Cheney, Malcolm S., and Kenneth Russell Roy. September 1999: 48.

Inquiry Investigation. Hand, Brian, and Carolyn W. Keys. April 1999: 27.

Insecticide Bioassays. Stark, Joyce E. Patterson, Yasmin V. Barrios, and Kyle Rattray. May 1999: 42.

Kinematic Elocution. Keefer, Robert K. May 1999: 32.

Laboratory for Learning. Pauls, John, Donald B. Young, and Viera Lapitkova. January 1999: 27.

Learning from the TIMSS. Chan, Alfred, Rodney Doran, and Carol Lenhardt. January 1999: 18.

Lights, Camera, Physics! Bachta, Linda M. November 1999: 20.

Loosestrife on the Loose. Fendrich, Jean, Steven Darhower, and Rosa Sosa. May 1999: 40.

Meaningful Lessons. Colburn, Alan, and Jana Echevarria. March 1999: 36.

Measuring Skills. Sterling, Donna. January 1999: 58.

Modeling Physics Forces. Nelson, Jane Bray. February 1999: 46.

Mother Nature's Chemistry Kitchen. Lizotte, Pauline A. December 1999: 32.

Mud Microbiology. Schipper, Angela, and Louis Schipper. May 1999: 26.

Narrative Lab Reports. Licata, Kenneth, P. March 1999: 20.

Nature Network. Buege, Douglas J. April 1999: 34.

Notable Women. Zacks, Cindy L. F. March 1999: 49.

NSTA's Response to the TIMSS. Rakow, Steven J. January 1999: 30.

Outcrops in the Classroom. Repine, Tom, and Deb Hemler. November 1999: 29.

Parents Count. Moreno, Nancy, Barbara Tharp, and James Denk. March 1999: 28.

Partners in Research. Case, Steven B., and William R. Miller. November 1999: 42.

Phenomenal Portfolios. Reese, Barbara F. November 1999: 24.

Physics: The Final Frontier. Blair, Michael, and Randi Montag Peterson. December 1999: 40.

Practical Assessment. Serri, Paul. February 1999: 34.

Practical Physics. Subramaniam, Karthigeyan. April 1999: 37.

Probing Student Minds. Hartley, Kendall W., David Fowler, and Robert Mann. October 1999: 34.

Questioning the TIMSS. Holliday, William G. January 1999: 34.

Safety Station Investigation. Potter, Teresa. September 1999: 24.

School Energy Audit. Welch, Peggy, and Jerry Harrison. May 1999: 44.

Science Facilities by Design. West, Sandra S., LaMoine L. Motz, and James T. Biehle. September 1999: 28.

science safety.edu. Gadsden, Jr., Thomas, and Kimberly S. Roempler. September 1999: 40.

Sea Turtle Patrol. Leonard, Carol J., Chris Kelley, Denise Marchegiani, Amanda Neumeyer, Justin Defiel, Rebecca Cheatwood, and Kristen Smith. May 1999: 38.

Secondary Performance. Forgione, Pascal, David Nohara, Christine Welch, and Laura Salganik. January 1999: 38.

Skills for the Future. Drummond, Carl N. April 1999: 30.

Standard Safety Precautions. Summerlin, Lee R., and Christie Borgford Summerlin. September 1999: 20.

Surveying the Deep. Leddy, Peter W. April 1999: 18.

Teaching for the Future. Andersen, Hans O. November 1999: 46.

Teaching Science with History. Abd-El-Khalick, Fouad. December 1999: 18.

Techniques for New Teachers. Eick, Charles, and Kelly Samford. November 1999: 34.

Thermal Mapping. Zerega, Margaret E. October 1999: 20.

Treatment of Knowledge, The. Sutherland, Dawn. March 1999: 40.

Using Balloons to Measure the Moon. Zeilik, Michael. December 1999: 23.

Value of an A, The. Peterman, Laurie, and Bill Linder-Scholer. January 1999: 42.

Virtual Viruses. Jones, M. Gail, Richard Superfine, and Russell M. Taylor II. October 1999: 48.
What Can the TIMSS Teach Us? Neuschatz, Michael. January 1999: 23.
When Students Design Experiments. Morrow, Jennifer. December 1999: 44.

Author Index

Abd-El-Khalick, Fouad. *Teaching Science with History*. December 1999: 18.
Adamson, Carol, and Gene Butler. *Design a Zoo*. February 1999: 18.
Allen, Nancy, Lee Meadows, and John Settlage. *Camera Connection*. March 1999: 32.
Andersen, Hans O. *Teaching for the Future*. November 1999: 46.
Atha, Jason T., and Ann M. L. Cavallo. *Aquatic Ecology*. February 1999: 26.
Atwater, Mary Monroe, and Melody L. Brown. *Inclusive Reform*. March 1999: 44.
Bachta, Linda M. *Lights, Camera, Physics!* November 1999: 20.
Barrios, Yasmin V., Kyle Rattray, and Joyce E. Patterson Stark. *Insecticide Bioassays*. May 1999: 42.
Biehle, James T., Sandra S. West, and LaMoine L. Motz. *Science Facilities by Design*. September 1999: 28.
Blair, Michael, and Randi Montag Peterson. *Physics: The Final Frontier*. December 1999: 40.
Brewer, Carol, Fletcher Brown, and Carol Snetsinger. *Capture the Wind*. February 1999: 38.
Brooks, David W., and Kent Crippen. *From Classroom to Homepage*. November 1999: 50.
Brown, Fletcher, Carol Snetsinger, and Carol Brewer. *Capture the Wind*. February 1999: 38.
Brown, Melody L., and Mary Monroe Atwater. *Inclusive Reform*. March 1999: 44.
Buege, Douglas J. *Nature Network*. April 1999: 34.
Butler, Gene, and Carol Adamson. *Design a Zoo*. February 1999: 18.
Carnate, Mary Beth, Richard L. Frost, Eugenie W. Maxwell, Tamara Garcia-Barbosa, and Barbara S. Thomson. *Creating a Culture for Success*. March 1999: 23.
Carter, Joseph G., and Cynthia K. Louden. *How Does Your Algae Grow?* May 1999: 22.
Carter, Timothy L. *Focusing on Learning*. October 1999: 44.
Case, Steven B., and William R. Miller. *Partners in Research*. November 1999: 42.
Cavallo, Ann M. L., and Jason T. Atha. *Aquatic Ecology*. February 1999: 26.
Chan, Alfred, Rodney Doran, and Carol Lenhardt. *Learning from the TIMSS*. January 1999: 18.
Cheatwood, Rebecca, Kristen Smith, Carol J. Leonard, Chris Kelley, Denise Marchegiani, Amanda Neumeyer, and Justin Defiel. *Sea Turtle Patrol*. May 1999: 38.
Cheney, Malcolm S., and Kenneth Russell Roy. *Inclusive Safety Solutions*. September 1999: 48.
Colburn, Alan, and Jana Echevarria. *Meaningful Lessons*. March 1999: 36.
Crippen, Kent, and David W. Brooks. *From Classroom to Homepage*. November 1999: 50.
Darhower, Steven, Rosa Sosa, and Jean Fendrich. *Loosestrife on the Loose*. May 1999: 40.
Davidson, Anne B. *Contracting for Safety*. September 1999: 36.
Defiel, Justin, Rebecca Cheatwood, Kristen Smith, Carol J. Leonard, Chris Kelley, Denise Marchegiani, and Amanda Neumeyer. *Sea Turtle Patrol*. May 1999: 38.
Denk, James, Nancy Moreno, and Barbara Tharp. *Parents Count*. March 1999: 28.
Doran, Rodney, Carol Lenhardt, and Alfred Chan. *Learning from the TIMSS*. January 1999: 18.
Drummond, Carl N. *Skills for the Future*. April 1999: 30.
Echevarria, Jana, and Alan Colburn. *Meaningful Lessons*. March 1999: 36.
Edwards, Angela D. *How Does Your Microbe Glow?* February 1999: 30.
Edwards, Mary, Julie Luft, Teresa Potter, and Gill Roehrig. *Extended-Inquiry Activities*. September 1999: 44.
Eick, Charles, and Kelly Samford. *Techniques for New Teachers*. November 1999: 34.
Fendrich, Jean, Steven Darhower, and Rosa Sosa. *Loosestrife on the Loose*. May 1999: 40.
Forgione, Pascal, David Nohara, Christine Welch, and Laura Salganik. *Secondary Performance*. January 1999: 38.
Fowler, David, Kendall W. Hartley, and Robert Mann. *Probing Student Minds*. October 1999: 34.
Frost, Richard L., Eugenie W. Maxwell, Tamara Garcia-Barbosa, Barbara S. Thomson, and Mary Beth Carnate. *Creating a Culture for Success*. March 1999: 23.
Gadsden, Jr., Thomas, and Kimberly S. Roempler. *science safety.edu*. September 1999: 40.
Garcia-Barbosa, Tamara, Barbara S. Thomson, Mary Beth Carnate, Richard L. Frost, and Eugenie W. Maxwell. *Creating a Culture for Success*. March 1999: 23.
Giardino, John R., Steven K. Marks, and John D. Vitek. *Feedback from the Research Frontier*. October 1999: 40.
Gonzalez-Espada, Wilson J., Deborah J. Tippins, and Thomas Haugh. *A Chocolate Curriculum*. October 1999: 30.
Hamilton, P. V. *Dialysis Analysis*. May 1999: 18.
Hand, Brian, and Carolyn W. Keys. *Inquiry Investigation*. April 1999: 27.
Harrison, Jerry, and Peggy Welch. *School Energy Audit*. May 1999: 44.
Hartley, Kendall W., David Fowler, and Robert Mann. *Probing Student Minds*. October 1999: 34.
Haugh, Thomas A., Deborah J. Tippins, and Wilson J. Gonzalez-Espada. *A Chocolate Curriculum*. October 1999: 30.
Hemler, Deb, and Tom Repine. *Outcrops in the Classroom*. November 1999: 29.
Holliday, William G. *Questioning the TIMSS*. January 1999: 34.
Hurd, Paul Dehart. *Comparing Student Achievement*. January 1999: 46.
Jones, M. Gail, Richard Superfine, and Russell M. Taylor II. *Virtual Viruses*. October 1999: 48.
Keefer, Robert K. *Kinematic Elocution*. May 1999: 32.
Kelley, Chris, Denise Marchegiani, Amanda Neumeyer, Justin Defiel, Rebecca Cheatwood, Kristen Smith, and Carol J. Leonard. *Sea Turtle Patrol*. May 1999: 38.
Keys, Carolyn W., and Brian Hand. *Inquiry Investigation*. April 1999: 27.
Lapitkova, Viera, John Pauls, and Donald B. Young. *Laboratory for Learning*. January 1999: 27.
Leddy, Peter W. *Surveying the Deep*. April 1999: 18.
Lenhardt, Carol, Alfred Chan, and Rodney Doran. *Learning from the TIMSS*. January 1999: 18.
Leonard, Carol J., Chris Kelley, Denise Marchegiani, Amanda Neumeyer, Justin Defiel, Rebecca Cheatwood, and Kristen Smith. *Sea Turtle Patrol*. May 1999: 38.
Licata, Kenneth P. *Narrative Lab Reports*. March 1999: 20.
Linder-Scholer, Bill, and Laurie Peterman. *The Value of an A*. January 1999: 42.
Lizotte, Pauline A. *Mother Nature's Chemistry Kitchen*. December 1999: 32.
Longo, John, Thomas E. McDuffie, and Barbara Neff. *Handle with Care*. September 1999: 32.
Louden, Cynthia K., and Joseph G. Carter. *How Does Your Algae Grow?* May 1999: 22.

Luft, Julie. *Challenging Myths.* April 1999: 40.

Luft, Julie, Mary Edwards, Teresa Potter, and Gill Roehrig. *Extended-Inquiry Activities.* September 1999: 44.

Mabry, Betsy. *A Case for Curriculum Review.* January 1999: 50.

MacIntyre, Bill. *Celestial Simulations.* December 1999: 36.

Mann, Robert, Kendall W. Hartley, and David Fowler. *Probing Student Minds.* October 1999: 34.

Marchegiani, Denise, Amanda Neumeyer, Justin Defiel, Rebecca Cheatwood, Kristen Smith, Carol J. Leonard, and Chris Kelley. *Sea Turtle Patrol.* May 1999: 38.

Margolis, Brian. *Aquatic Biomonitoring.* April 1999: 22.

Marks, Steven K., John D. Vitek, and John R. Giardino. *Feedback from the Research Frontier.* October 1999: 40.

Maxwell, Eugenie W., Tamara Garcia-Barbosa, Barbara S. Thomson, Mary Beth Carnate, and Richard L. Frost. *Creating a Culture for Success.* March 1999: 23.

McDuffie, Thomas E., John Longo, and Barbara Neff. *Handle with Care.* September 1999: 32.

McGuire, Sarah Lea. *Genetics Demonstration.* April 1999: 44.

McNew, Jill C., and Jeffrey Weld. *Attitudes Toward Evolution.* December 1999: 26.

Meadows, Lee, John Settlage, and Nancy Allen. *Camera Connection.* March 1999: 32.

Miller, William R., and Steven B. Case. *Partners in Research.* November 1999: 42.

Moreno, Nancy, Barbara Tharp, and James Denk. *Parents Count.* March 1999: 28.

Morrow, Jennifer. *When Students Design Experiments.* December 1999: 44.

Motz, LaMoine L., Sandra S. West, and James T. Biehle. *Science Facilities by Design.* September 1999: 28.

Neff, Barbara, Thomas E. McDuffie, and John Longo. *Handle with Care.* September 1999: 32.

Nelson, George D. *Back to Basics.* January 1999: 54.

Nelson, Jane Bray. *Modeling Physics Forces.* February 1999: 46.

Neumeyer, Amanda, Justin Defiel, Rebecca Cheatwood, Kristen Smith, Carol J. Leonard, Chris Kelley, and Denise Marchegiani. *Sea Turtle Patrol.* May 1999: 38.

Neuschatz, Michael. *What Can the TIMSS Teach Us?* January 1999: 23.

Nohara, David, Christine Welch, Laura Salganik, and Pascal Forgione. *Secondary Performance.* January 1999: 38.

O'Connell, Edward M. *The Electron Slide.* December 1999: 48.

Paris, Nita A. *Biology by Analogy.* November 1999: 24.

Pauls, John, Donald B. Young, and Viera Lapitkova. *Laboratory for Learning.* January 1999: 27.

Peterman, Laurie, and Bill Linder-Scholer. *The Value of an A.* January 1999: 42.

Peterson, Randi Montag, and Michael Blair. *Physics: The Final Frontier.* December 1999: 40.

Potter, Teresa. *Safety Station Investigation.* September 1999: 24.

Potter, Teresa, Mary Edwards, Julie Luft, and Gill Roehrig. *Extended-Inquiry Activities.* September 1999: 44.

Rakow, Steven J. *NSTA's Response to the TIMSS.* January 1999: 30.

Rattray, Kyle, Joyce E. Patterson Stark, and Yasmin V. Barrios. *Insecticide Bioassays.* May 1999: 42.

Reed, Sandra A. *Explaining Ellipses.* May 1999: 29.

Reese, Barbara F. *Phenomenal Portfolios.* November 1999: 24.

Repine, Tom, and Deb Hemler. *Outcrops in the Classroom.* November 1999: 29.

Roehrig, Gill, Mary Edwards, Julie Luft, and Teresa Potter. *Extended-Inquiry Activities.* September 1999: 44.

Roempler, Kimberly S., and Thomas Gadsden, Jr. *science safety.edu.* September 1999: 40.

Roy, Kenneth Russell, and Malcolm S. Cheney. *Inclusive Safety Solutions.* September 1999: 48.

Russell, Revabeth L., and Mardi Weber. *An Environmental Adventure.* October 1999: 26.

Salganik, Laura, Pascal Forgione, David Nohara, and Christine Welch. *Secondary Performance.* January 1999: 38.

Samford, Kelly, and Charles Eick. *Techniques for New Teachers.* November 1999: 34.

Schipper, Angela, and Louis Schipper. *Mud Microbiology.* May 1999: 26.

Schipper, Louis, and Angela Schipper. *Mud Microbiology.* May 1999: 26.

Serri, Paul. *Practical Assessment.* February 1999: 34.

Settlage, John, Nancy Allen, and Lee Meadows. *Camera Connection.* March 1999: 32.

Smith, Kristen, Carol J. Leonard, Chris Kelley, Denise Marchegiani, Amanda Neumeyer, Justin Defiel, and Rebecca Cheatwood. *Sea Turtle Patrol.* May 1999: 38.

Snetsinger, Carol, Carol Brewer, and Fletcher Brown. *Capture the Wind.* February 1999: 38.

Sosa, Rosa, Jean Fendrich, and Steven Darhower. *Loosestrife on the Loose.* May 1999: 40.

Stark, Joyce E. Patterson, Yasmin V. Barrios, and Kyle Rattray. *Insecticide Bioassays.* May 1999: 42.

Sterling, Donna. *Measuring Skills.* January 1999: 58.

Strong, Elizabeth A., and Robert E. Strong. *Geodesic Earth.* February 1999: 43.

Strong, Robert E., and Elizabeth A. Strong. *Geodesic Earth.* February 1999: 43.

Subramaniam, Karthigeyan. *Practical Physics.* April 1999: 37.

Summerlin, Christie Borgford, and Lee R. Summerlin. *Standard Safety Precautions.* September 1999: 20.

Summerlin, Lee R., and Christie Borgford Summerlin. *Standard Safety Precautions.* September 1999: 20.

Superfine, Richard, M. Gail Jones, and Russell M. Taylor II. *Virtual Viruses.* October 1999: 48.

Sutherland, Dawn. *The Treatment of Knowledge.* March 1999: 40.

Swanson, Richard Pommier. *Gender Bender.* October 1999: 23.

Taylor II, Russell, M. Gail Jones, and Richard Superfine. *Virtual Viruses.* October 1999: 48.

Tharp, Barbara, James Denk, and Nancy Moreno. *Parents Count.* March 1999: 28.

Thomson, Barbara S., Mary Beth Carnate, Richard L. Frost, Eugenie W. Maxwell, and Tamara Garcia-Barbosa. *Creating a Culture for Success.* March 1999: 23.

Timmerman, Barbara. *The Chemistry of Cooking.* February 1999: 22.

Tippins, Deborah J., Wilson J. Gonzalez-Espada, and Thomas A. Haugh. *A Chocolate Curriculum.* October 1999: 30.

Vitek, John D., Steven K. Marks, and John R. Giardino. *Feedback from the Research Frontier.* October 1999: 40.

Weber, Mardi, and Revabeth L. Russell. *An Environmental Adventure.* October 1999: 26.

Welch, Christine, Laura Salganik, Pascal Forgione, and David Nohara. *Secondary Performance.* January 1999: 38.

Welch, Peggy, and Jerry Harrison. *School Energy Audit.* May 1999: 44.

Weld, Jeffrey, and Jill C. McNew. *Attitudes Toward Evolution.* December 1999: 26.

West, Sandra S., LaMoine L. Motz, and James T. Biehle. *Science Facilities by Design.* September 1999: 28.

Young, Donald B., Viera Lapitkova, and John Pauls. *Laboratory for Learning.* January 1999: 27.

Zacks, Cindy L. F. *Notable Women.* March 1999: 49.

Zeilik, Michael. *Using Balloons to Measure the Moon.* December 1999: 23.

Zerega, Margaret E. *Thermal Mapping.* October 1999: 20.